## WIRELESS LOCAL AREA NETWORK SYSTEM WITH MOBILE ACCESS POINT STATION DETERMINATION

## Abstract of the Disclosure

A wireless local area network system includes a plurality of access point stations at known locations that receive and transmit communication signals within 5 the wireless local area network. A mobile access point station receives and transmits communication signals within the wireless local area network. A location processor is operatively connected to each of the access point stations and operative to process communication signals transmitted from the mobile access point station and determining which communication signals are first-to-arrive signals based on a common timing signal and conducting differentiation of the first-to-arrive signals to locate the mobile access point station.